

HDF to GeoTIFF (H2G) Converter

A Tool for Enhancing the Utility of Earth Science Data

INPUT HDF4/HDF5 Manual Command Line Data Metadata Interface Geolocation Science or Configuration Color N Project Automatic _____ **IPOPP** Interface

- H2G is specifically designed for direct readout
- H2G can run either standalone for manual processing or can be plugged into IPOPP (International Polar Orbiter Processing Package) for automatic processing of direct readout data
- H2G provides multimission support. It can process MODIS Level 2 HDF4 products (from EOS Terra/Aqua) and VIIRS EDR HDF5 products (from NPP/JPSS missions)

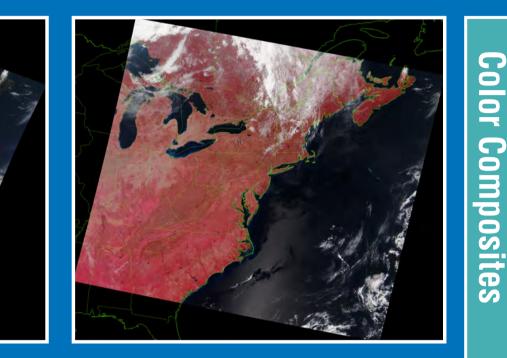
Vector Overlay Overlay Physical Building Salar Special Spinal Spi

PROCESSING

- H2G uses external packages (JHDF4 or JHDF5) to read the input HDF4/ HDF5 files
- H2G uses an internal subsetting module to extract a region of interest specification by the user
- H2G uses the input geolocation data and the JProj4 package to project the output image as per user specification
- The internal image buffer, the colormap, and projection information are input to Java Advanced Imaging (JAI) package to produce a Georeferenced Tagged Image File Format (GeoTIFF)
- H2G is preconfigured to produce a host of standard products and allows user-defined configuration for non-standard products

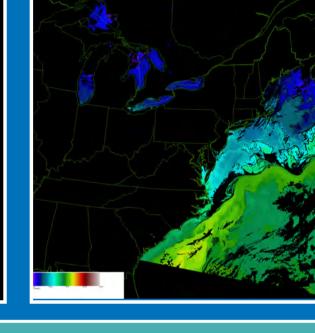
OUTPUT

Geographic



Stereographic





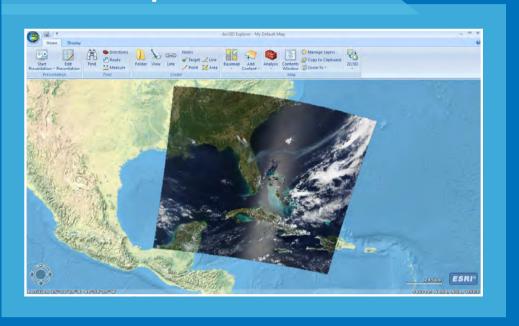


Browse Imagery

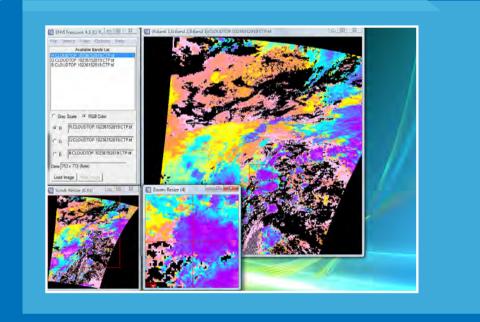
- H2G can create either GIS-enabled GeoTIFF imagery or png/jpeg browse imagery. Browse imagery is enhanced with vector overlays of land, sea, and political boundaries and may have optional legends and fire pixel overlays
- H2G incorporates several features to enhance output images and facilitate scientific interpretation
- While creating images from a primary dataset, a secondary dataset may be used to mask appropriate areas
- User-defined colormap and user-defined scaling capabilities for conversion of dataset values into image pixels
- Choice of output projections
- Optional subsetting of swaths

APPLICATIONS

ArcGIS Explorer







H2G images, in combination with KML, can be opened

in Google Earth

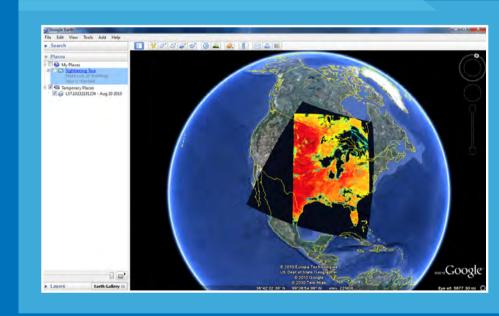
opened directly in

GISs or in standalone

GeoTIFF can be

 H2G images can be displayed on Google Maps

Google Earth



Google Maps

